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JAN 22 2007

AMENDMENTS TO THE CLAIMS

1. (Currently amended). A process for operating a blue flame burner comprising:  
providing a blue flame burner adapted for domestic heating with fuel comprising a Fischer-Tropsch-derived fuel; and,  
burning the fuel under conditions effective a Fischer-Tropsch-derived fuel to produce an amount of energy and flue gasses; and,  
performing one or more procedure selected from the group consisting of heating water with the flue gasses by indirect heat exchange in a boiler and directly heating a space with the flue gasses.
2. (Currently amended) The process of claim 1 ~~[[5]] further comprising operating under wherein the conditions comprise such that a value of lambda is in a range of between about 1 and about 1.6.~~
3. (Currently amended) The process of claim 2 ~~[[5]] wherein the value of lambda is in a range of between about 1.05 and about 1.2.~~
4. (Currently amended) The process of claim 1 ~~[[5]] wherein the one or more procedure is further comprising heating water with the flue gasses by means of indirect heat exchange in a boiler.~~
5. (Currently amended) The process of claim 1 ~~[[5]] further comprising wherein the one or more procedure is directly heating a space directly with the flue gasses.~~
6. (Currently amended) The process of claim 1 ~~[[5]] wherein 90 wt.% or more of the Fischer-Tropsch-derived Tropsch-derived fuel boils for more than 90 wt.% boils at a first temperature in a first range of between about 160 °C and about 400 °C.~~
7. (Currently amended) The process of claim 6 ~~[[5]] wherein 90 wt.% or more of the Fischer-Tropsch-derived Tropsch-derived fuel boils for more than 90 wt.% boils at a second temperature in a second range of between about 160 °C and about 370 °C.~~
8. (Currently amended) The process of claim 1 ~~[[5]] wherein the Fischer-Tropsch derived Tropsch-derived fuel comprises a Fischer-Tropsch product that which contains more than about 80 wt % or more of iso-paraffins and normal paraffins, less than about 1 wt % or less of aromatics, less than about 5 ppm or less of sulfur, and less than about 1 ppm or less of nitrogen,~~

ROA mailed 09/25/2006 for 10/521,882

and wherein ~~the density of the Fischer-Tropsch product~~ has a density of ~~is~~ between about 0.65 g/cm<sup>3</sup> and about 0.8 g/cm<sup>3</sup> at about 15 °C.

9. (Currently amended) The process of claim 1 ~~[[5]]~~ wherein the Fischer-Tropsch ~~derived~~ Tropsch-derived fuel comprises ~~more than about 80 wt %~~ or more of a Fischer-Tropsch product.

10. (Currently amended) The process of claim 9 ~~[[5]]~~ wherein the Fischer-Tropsch ~~derived~~ Tropsch-derived fuel comprises one or more of a mineral oil fraction and ~~and/or~~ a non-mineral oil fraction.

11. (Currently amended) The process of claim 1 ~~[[5]]~~ wherein the Fischer-Tropsch ~~derived~~ Tropsch-derived fuel comprises one or more additives.

12. (Currently amended) The process of claim 11 ~~[[5]]~~ wherein the Fischer-Tropsch ~~derived~~ Tropsch-derived fuel further comprises an odor marker.

13. (Currently amended) The process of claim 11 ~~[[5]]~~ wherein the Fischer-Tropsch ~~derived~~ Tropsch-derived fuel further comprises a color marker.

14. (New) A method for operating a blue flame burner, the method comprising:  
supplying a liquid Fischer-Tropsch-derived fuel to the blue flame burner;  
supplying an oxygen-containing gas to the blue flame burner;  
mixing the liquid Fischer-Tropsch-derived fuel and the oxygen-containing gas to form a combustible mixture;  
feeding the combustible mixture to a pre-combustion space within the blue flame burner;  
burning the combustible mixture utilizing the blue flame burner to produce flue gasses;  
and  
recycling at least a portion of the flue gasses externally of the blue flame burner to a nozzle of the blue flame burner recirculating the portion of the flue gasses.

15. (New) The method of claim 14 further comprising performing one or more procedure selected from the group consisting of heating water with the flue gasses by indirect heat exchange in a boiler and directly heating a space with the flue gasses.

16. (New) A method for operating a blue flame burner, the method comprising:  
supplying a liquid Fischer-Tropsch-derived fuel to the blue flame burner;

ROA mailed 09/25/2006 for 10/521,882

- supplying an oxygen-containing gas to the blue flame burner;  
mixing the liquid Fischer-Tropsch-derived fuel and the oxygen-containing gas to form a combustible mixture;  
feeding the combustible mixture to a pre-combustion space within the blue flame burner;  
burning the combustible mixture utilizing the blue flame burner to produce flue gasses;  
and  
recycling at least a portion of the flue gasses to a nozzle of the blue flame burner by swirling the combustible mixture within the blue flame burner recirculating the portion of the flue gasses.
17. (New) The method of claim 16 further comprising performing one or more procedure selected from the group consisting of heating water with the flue gasses by indirect heat exchange in a boiler and directly heating a space with the flue gasses.
18. (New) A method for operating a blue flame burner, the method comprising:  
supplying liquid Fischer-Tropsch-derived fuel to the blue flame burner;  
supplying an oxygen-containing gas to the blue flame burner;  
mixing the liquid Fischer-Tropsch-derived fuel and the oxygen-containing gas to form a combustible mixture;  
burning the combustible mixture utilizing the blue flame burner; and  
operating under conditions wherein  $\lambda$  comprises a ratio of a total amount of the oxygen-containing gas available for combustion to an amount of the oxygen-containing gas required to burn substantially all of the Fischer-Tropsch-derived fuel,  $\lambda$  having a value of about 1.6 or less.
19. (New) The method of claim 18 further comprising:  
feeding the combustible mixture to a pre-combustion space within the blue flame burner;  
recycling at least a portion of the flue gasses to a nozzle of the blue flame burner; and  
operating under conditions wherein  $\lambda$  has a value of 1 or more.
20. (New) The method of claim 18 further comprising performing one or more procedure selected from the group consisting of heating water with the flue gasses by indirect heat exchange in a boiler and directly heating a space with the flue gasses.

ROA mailed 09/25/2006 for 10/521,882

21. (New) The method of claim 1 wherein the flue gasses comprise a reduced quantity of  $\text{NO}_x$  compared to the quantity of  $\text{NO}_x$  produced burning a non-Fischer-Tropsch-derived fuel under the same conditions.
22. (New) The method of claim 1 wherein the flue gasses comprise a reduced quantity of carbon monoxide compared to the quantity of carbon monoxide produced burning a non-Fischer-Tropsch-derived fuel under the same conditions.

**ROA** mailed 09/25/2006 for 10/521,882